



Technician
JUNE 1986

Interoffice Communication

*Interoffice
detail*

OF _____
JRH _____
WCB _____
DDC _____
RSJ _____
FILE _____

To Mike Johnston
From M. W. Clayton
Date June 19, 1986
Subject Benzene Analysis of Gasoline Tanks - Lake Charles Refinery

The benzene content of Refinery base gasoline tanks and finish product gasoline tanks was determined. All of the tanks were below the five percent maximum allowable concentration*. The tanks showing the highest levels of benzene were the reformate tanks and the super unleaded tanks which contain a high percentage of reformate.

*4.9%
by wt.
1- -*

<u>Tank</u>	<u>Sample Date</u>	<u>Gasoline Type</u>	<u>Benzene</u> <i>L.V. 4.9%</i> (0.1%)
38	6-11-86	Light St. Run	0.93
77	6-13-86	No. 2 Reformate	3.47
85	6-13-86	FCC Gasoline	0.94
98	6-13-86	Alkylate	0.10
99	6-12-86	Alkylate	0.10
33	6-11-86	No. 3 Reformate	4.14
78	6-13-86	Super Unleaded	1.79
64	5-27-86	Super Unleaded	3.18
65	6-09-86	Super Unleaded	1.49
80	6-13-86	Regular Leaded	1.86
25	6-01-86	Regular Leaded	1.65
32	5-29-86	Regular Leaded	2.36
92	6-08-86	Unleaded	1.87
93	6-13-86	Unleaded	0.29
31	6-05-86	Unleaded	2.12

4.5 wt. 7.9

* Maximum allowable concentration for gasolines sales

M. W. Clayton
M. W. Clayton
Analytical Chemist

mr
cc: PFM/DLW RJH/PAN/RLM RHC KWC/JJM/JI/FILE
T. *W* Waltrip - Ponca City

LABORATORY NO.: L-24-84
12-6-84
Attachment

Sample: Atlas Corp. (Pennzoil)
Pyrolysis
Gasoline
Sample Date: 12-3-84 (Rec'd)
Sample No. PC 1460

PONA Analysis by Carbon No., LV%

<u>Carbon No.</u>	<u>Paraffins</u>	<u>Naphthenes</u>	<u>Aromatics</u>	<u>Olefins</u>
C ₄	-	-	-	Trace
C ₅	0.6	0.1	-	1.1
C ₆	0.9	0.4	24.9	↑
C ₇	1.4	1.4	20.0	6.3
C ₈	1.1	1.3	16.8	↓
C ₉	0.7	0.9	15.8	
C ₁₀	0.5	0.6	3.3	
C ₁₁	0.2	0.2	1.3	
C ₁₂	0.1	Trace	0.1	
Total	5.5	4.9	82.2	7.4

Gravity, °API @60°F 32.8

ASTM D-86 Dist., °F Corrected to 760 mm Hg.

IBP	129
5% Recovered	170
10% Recovered	182
20% Recovered	199
30% Recovered	214
40% Recovered	228
50% Recovered	247
60% Recovered	270
70% Recovered	296
80% Recovered	311
90% Recovered	339
95% Recovered	353
EP	365
Vol. % Recovered	99.0
Vol. % Residue	1.0

Nitrogen, Total, PPMW 26
Sulfur, Total, Wt.% 0.01
RON, Clear 107.7
MON, Clear 85.7

SAL 000000948